



PTO/SB/21 (08-03)

1641

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**TRANSMITTAL  
FORM***(to be used for all correspondence after initial filing)*

<b>TRANSMITTAL FORM</b> <i>(to be used for all correspondence after initial filing)</i>	Application Number	09/574,692	
	Filing Date	May 17, 2000	
	First Named Inventor		
	Art Unit	1641	
Examiner Name	Christopher L. Chin		
Total Number of Pages in This Submission	6	Attorney Docket Number	020144-001930US

**ENCLOSURES (Check all that apply)**

<input type="checkbox"/> Fee Transmittal Form <input type="checkbox"/> Fee Attached <input type="checkbox"/> Amendment/Reply <input type="checkbox"/> After Final <input type="checkbox"/> Affidavits/declaration(s) <input type="checkbox"/> Extension of Time Request <input type="checkbox"/> Express Abandonment Request <input checked="" type="checkbox"/> Information Disclosure Statement <input type="checkbox"/> Certified Copy of Priority Document(s) <input type="checkbox"/> Response to Missing Parts/Incomplete Application <input type="checkbox"/> Response to Missing Parts under 37 CFR 1.52 or 1.53	<input type="checkbox"/> Drawing(s) <input type="checkbox"/> Licensing-related Papers <input type="checkbox"/> Petition <input type="checkbox"/> Petition to Convert to a Provisional Application <input type="checkbox"/> Power of Attorney, Revocation Change of Correspondence Address <input type="checkbox"/> Terminal Disclaimer <input type="checkbox"/> Request for Refund <input type="checkbox"/> CD, Number of CD(s)	<input type="checkbox"/> After Allowance Communication to Group <input type="checkbox"/> Appeal Communication to Board of Appeals and Interferences <input type="checkbox"/> Appeal Communication to Group (Appeal Notice, Brief, Reply Brief) <input type="checkbox"/> Proprietary Information <input type="checkbox"/> Status Letter <input checked="" type="checkbox"/> Other Enclosure(s) <i>(please identify below):</i> Return Postcard Cited References
<input type="checkbox"/> Remarks		The Commissioner is authorized to charge any additional fees to Deposit Account 20-1430.

**SIGNATURE OF APPLICANT, ATTORNEY, OR AGENT**

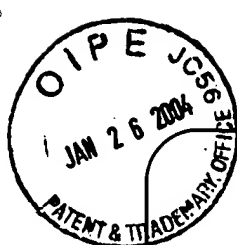
Firm or Individual	Townsend and Townsend and Crew LLP Patrick R. Jewik	Reg. No. 40,456
Signature		
Date	1/21/04	

**CERTIFICATE OF TRANSMISSION/MAILING**

I hereby certify that this correspondence is being facsimile transmitted to the USPTO or deposited with the United States Postal Service with sufficient postage as first class mail in an envelope addressed to: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450 on the date shown below.

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Signature		Date	

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# FEE TRANSMITTAL for FY 2004

Effective 10/01/2003. Patent fees are subject to annual revision.

☒ Applicant claims small entity status. See 37 CFR 1.27

TOTAL AMOUNT OF PAYMENT (\$) 180

Complete if Known

Application Number	09/574,692
Filing Date	May 17, 2000
First Named Inventor	Wagner
Examiner Name	Christopher L. Chin
Art Unit	1641
Attorney Docket No.	020144-001930US

## METHOD OF PAYMENT (check all that apply)

☐ Check ☐ Credit Card ☐ Money Order ☐ Other ☐ None☒ Deposit Account:Deposit  
Account  
Number

20-1430

Deposit  
Account  
Name

Townsend and Townsend and Crew LLP

The Director is authorized to: (check all that apply)

☒ Charge fee(s) indicated below ☒ Credit any overpayments☒ Charge any additional fee(s) or any underpayment of fee(s)☐ Charge fee(s) indicated below, except for the filing fee to the above-identified deposit account.

## FEE CALCULATION

## 1. BASIC FILING FEE

Large Entity		Small Entity		Fee Description	Fee Paid
Fee Code	Fee (\$)	Fee Code	Fee (\$)		
1001	770	2001	385	Utility filing fee	
1002	340	2002	170	Design filing fee	
1003	530	2003	265	Plant filing fee	
1004	770	2004	385	Reissue filing fee	
1005	160	2005	80	Provisional filing fee	

SUBTOTAL (1)

(\$)

## 2. EXTRA CLAIM FEES FOR UTILITY AND REISSUE

		Extra Claims		Fee from below	Fee Paid
Total Claims	**	=			
Independent Claims		=			
Multiple Dependent		=			

Large Entity		Small Entity		Fee Description
Fee Code	Fee (\$)	Fee Code	Fee (\$)	
1202	18	2202	9	Claims in excess of 20
1201	86	2201	43	Independent claims in excess of 3
1203	290	2203	145	Multiple dependent claim, if not paid
1204	86	2204	43	** Reissue independent claims over original patent
1205	18	2205	9	** Reissue claims in excess of 20 and over original patent

SUBTOTAL (2)

(\$)

\*\*or number previously paid, if greater; For Reissues, see above

## FEE CALCULATION (continued)

## 3. ADDITIONAL FEES

Large Entity		Small Entity		Fee Description	Fee Paid
Fee Code	Fee (\$)	Fee Code	Fee (\$)		
1051	130	2051	65	Surcharge - late filing fee or oath	
1052	50	2052	25	Surcharge - late provisional filing fee or cover sheet	
1053	130	1053	130	Non-English specification	
1812	2,520	1812	2,520	For filing a request for reexamination	
1804	920*	1804	920*	Requesting publication of SIR prior to Examiner action	
1805	1,840*	1805	1,840*	Requesting publication of SIR after Examiner action	
1251	110	2251	55	Extension for reply within first month	
1252	420	2252	210	Extension for reply within second month	
1253	950	2253	475	Extension for reply within third month	
1254	1,480	2254	740	Extension for reply within fourth month	
1255	2,010	2255	1,005	Extension for reply within fifth month	
1401	330	2401	165	Notice of Appeal	
1402	330	2402	165	Filing a brief in support of an appeal	
1403	290	2403	145	Request for oral hearing	
1451	1,510	1451	1,510	Petition to institute a public use proceeding	
1452	110	2452	55	Petition to revive - unavoidable	
1453	1,330	2453	665	Petition to revive - unintentional	
1501	1,330	2501	665	Utility issue fee (or reissue)	
1502	480	2502	240	Design issue fee	
1503	640	2503	320	Plant issue fee	
1460	130	1460	130	Petitions to the Commissioner	
1807	50	1807	50	Petitions related to provisional applications	
1806	180	1806	180	Submission of Information Disclosure Stmt	180
8021	40	8021	40	Recording each patent assignment per property (times number of properties)	
1809	770	2809	385	Filing a submission after final rejection (37 CFR § 1.129(a))	
1810	770	2810	385	For each additional invention to be examined (37 CFR § 1.129(b))	
1801	770	2801	385	Request for Continued Examination (RCE)	
1802	900	1802	900	Request for expedited examination of a design application	

Other fee (specify) \_\_\_\_\_

\*Reduced by Basic Filing Fee Paid SUBTOTAL (3)

(\$180)

## SUBMITTED BY

Complete (if applicable)

Name (Print/Type)	Patrick R. Jewik	Registration No. (Attorney/Agent)	40,456	Telephone	415-576-0200
Signature		Date	January 22, 2004		

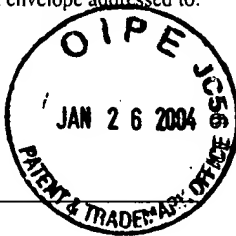
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Alexandria, VA 22313-1450

On

1-22-04



**PATENT**  
Attorney Docket No.: 020144-001930US  
Client Reference No.: 0002.P2.D2.USN

TOWNSEND and TOWNSEND and CREW LLP

By:

*London Clark*

**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

In re application of:

Peter Wagner, et al.

Application No.: 09/574,692

Filed: May 17, 2000

For: ARRAYS OF PROTEIN-CAPTURE  
AGENTS AND METHODS OF USE  
THEROF

Examiner: Christopher L. Chin

Art Unit: 1641

SUPPLEMENTAL INFORMATION  
DISCLOSURE STATEMENT UNDER 37  
CFR §1.97 and §1.98

Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

Sir:

The references cited on attached form PTO/SB/08 are being called to the attention of the Examiner. In accordance with 37 CFR §1.98(d), copies of references AA-AR, BL-BO and BR-CG can be found in Application No. 09/115,455, filed July 14, 1998 now US Patent 6,406,921 B1 issued June 18, 2002 (Attorney Docket No. 020144-001900US). Copies of references AS-BK, BP-BQ and CH are enclosed. It is respectfully requested that the cited references be expressly considered during the prosecution of this application, and the references be made of record therein and appear among the "references cited" on any patent to issue therefrom.

01/29/2004 HTECKLU1 00000062 201430 09574692

01 FC:1806 180.00 DA

As provided for by 37 CFR 1.97(g) and (h), no inference should be made that the information and references cited are prior art merely because they are in this statement and no representation is being made that a search has been conducted or that this statement encompasses all the possible relevant information.

This IDS is being filed before the mailing date of the final Office Action or Notice of Allowance.

Please charge the IDS fee of \$180 to Deposit Account No. 20-1430. Please deduct any additional fees from, or credit any overpayment to, the above-noted Deposit Account.

Respectfully submitted,

A handwritten signature in black ink, appearing to read 'Patrick R. Jewik', enclosed within a large, loopy oval shape.

Patrick R. Jewik  
Reg. No. 40,456

TOWNSEND and TOWNSEND and CREW LLP  
Two Embarcadero Center, Eighth Floor  
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Tel: 415-576-0200  
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PRJ/lhc



Substitute for form 1449B/PTO

**INFORMATION DISCLOSURE  
STATEMENT BY APPLICANT**

(use as many sheets as necessary)

Sheet 1 of 3

**Complete if Known**

Application Number

09/574,692

Filing Date

May 17, 2000

First Named Inventor

Wagner

Art Unit

1641

Examiner Name

Christopher L. Chin

Attorney Docket Number

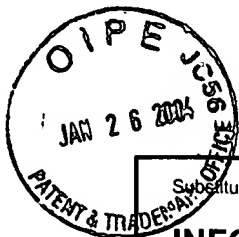
020144-001930US

U.S. PATENT DOCUMENTS+					
Examiner Initials*	Cite No. <sup>1</sup>	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number Kind Code <sup>2</sup> (if known)			
	AA	US-4,071,409	01-31-1978	Messing et al.	
	AB	US-4,722,896	02-02-1988	Kadish et al.	
	AC	US-5,096,807	03-17-1992	Leaback	
	AD	US-5,296,114	03-22-1994	Manz	
	AE	US-5,304,487	04-19-1994	Wilding et al.	
	AF	US-5,441,876	08-15-1995	Singh	
	AG	US-5,700,643	12-23-1997	Monforte et al.	
	AH	US-5,726,026	03-10-1998	Wilding et al.	
	AI	US-5,766,908	06-19-1998	Klein et al.	
	AJ	US-5,837,832	11-17-1998	Chee et al.	
	AK	US-5,843,767	12-01-1998	Beattie	
	AL	US-5,858,188	01-12-1999	Soane et al.	
	AM	US-5,861,242	01-19-1999	Chee et al.	
	AN	US-5,866,345	02-02-1999	Wilding et al.	
	AO	US-5,919,523	07-06-1999	Sundberg et al.	
	AP	US-5,925,552	07-20-1999	Keogh et al.	
	AQ	US-5,928,880	07-27-1999	Wilding et al.	
	AR	US-5,942,443	08-24-1999	Parce et al.	
	AS	US-5,424,186	06-13-1995	Fodor et al.	
	AT	US-5,665,582	09-09-1997	Kausch, et al.	
	AU	US-5,700,642	12-23-1997	Monforte et al.	
	AV	US-5,851,840	12-22-1998	Sluka et al.	
	AW	US-6,066,448	05-23-2000	Wohlstadter, et al.	
	AX	US-6,090,545	07-18-2000	Wohlstadter, et al.	
	AY	US-6,140,045	10-31-2000	Wohlstadter, et al.	
	AZ	US-6,197,599 B1	03-06-2001	Chin, et al.	
	BA	US-6,329,209 B1	12-11-2001	Wagner et al.	
	BB	US-6,365,418 B1	04-02-2002	Wagner et al.	
	BC	US-6,406,840	06-18-2002	Li et al.	
	BD	US-6,406,921 B1	06-18-2002	Wagner et al.	
	BE	US-6,454,924 B2	09-24-2002	Jedrzejewski et al.	
	BF	US-6,475,808 B1	11-05-2002	Wagner et al.	
	BG	US-6,475,809 B1	11-05-2002	Wagner et al.	
	BH	US-6,576,478 B1	06-10-2003	Wagner et al.	
	BI	US-6,582,969 B1	06-24-2003	Wagner et al.	
	BJ	US-6,596,545 B1	07-22-2003	Wagner et al.	
	BK	US-6,630,358 B1	10-07-2003	Wagner et al.	

Examiner  
Signature

Date  
Considered

\* EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.  
<sup>1</sup> Applicant's unique citation designation number (optional). <sup>2</sup> Applicant is to place a check mark here if English language Translation is attached.



Substitute for form 1449B/PTO		<b>Complete if Known</b>			
<b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b>  (use as many sheets as necessary)		Application Number	09/574,692		
		Filing Date	May 17, 2000		
		First Named Inventor	Wagner		
		Art Unit	1641		
		Examiner Name	Christopher L. Chin		
Sheet	2	of	3	Attorney Docket Number	020144-001930US

FOREIGN PATENT DOCUMENTS								
Examiner Initials*	Cite No. <sup>1</sup>	Foreign Patent Document			Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T <sup>2</sup>
		Country Code <sup>3</sup>	Number <sup>4</sup>	Kind Code <sup>5</sup> (if known)				
	BL	WO	99/40434		08-12-1999	Nasoff, et al.		<input type="checkbox"/>
	BM	WO	00/52209		09-08-2000	Fantl, et al.		<input type="checkbox"/>
	BN	WO	00/53625		09-14-2000	Montgomery, et al.		<input type="checkbox"/>
	BO	WO	00/54046		09-14-2000	Ge		<input type="checkbox"/>
	BP	JP	2272081	✓	11-06-1990	Fuji Photo Film Co Ltd		<input type="checkbox"/>
	BQ	WO	98/39481	✓	09-11-1998	Rogers, et al.		<input type="checkbox"/>
								<input type="checkbox"/>
								<input type="checkbox"/>

NON PATENT LITERATURE DOCUMENTS			
Examiner Initials *	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T <sup>2</sup>
	BR	Cha et al. Expression of fused protein, human interleukin-2 and green fluorescent protein, in insect larvae. Annual Meeting of The American Institute of Chemical Engineers, Los Angeles, CA, Nov. 1997.*	
	BS	Colliod et al. "Oriented and covalent immobilization of target molecules to solid supports" Synthesis and application of a light-activatable and thiol-reactive cross-linking reagent Bioconjugate Chem. 4:528-536 (1993).	
	BT	Dzgoev et al "Microformat imaging ELISA for pesticide determination" Anal. Chem. 68(19):3364 (1996).	
	BU	Ekins "Ligand assays" from electrophoresis to miniaturized microarrays Clin. Chem. 44(9):2015-2030 (1998).	
	BV	Elkins et al. "Multianalyte microspote immunoassay-microanalytical "compact disk" of the future" Clin. Chem. 37(11):1955-1967 (1991).	
	BW	Jacobson et al. "Fused quartz substrates for microchip electrophoresis" Anal. Chem. 67:2059-2063.	
	BX	Jones et al. "Microminaturized immunoassays using atomic force microscopy and compositionally patterned antigen arrays" Anal. Chem. 70(7):1223-1241 (1998).	
	BY	Kemeny. Enzyme-linked immunoassays. In Immuno-Chemistry 1 (eds Johnstone and Turner). pp. 147-175, Nov. 1997.*	
	BZ	Kricka "Miniaturization of analytical systems" Clin. Chem. 44(9):2008-2014 (1998).	
	CA	Marks et al. "By-passing immunization- Human antibodies from V-gene libraries displayed on phage" J. Mol. Biol. 222:581-597 (1991).	

Examiner Signature		Date Considered	
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\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

<sup>1</sup> Applicant's unique citation designation number (optional). <sup>2</sup> Applicant is to place a check mark here if English language Translation is attached.



<b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b>  (use as many sheets as necessary)		<b>Complete if Known</b>			
		Application Number	09/574,692		
		Filing Date	May 17, 2000		
		First Named Inventor	Wagner		
		Art Unit	1641		
		Examiner Name	Christopher L. Chin		
Sheet	3	of	3	Attorney Docket Number	020144-001930US

NON PATENT LITERATURE DOCUMENTS			
Examiner Initials *	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T <sup>2</sup>
	CB	Martynova et al. "Fabricating of plastic microfluid channels by imprinting methods" Anal. Chem. 69:4783-47-89 (1997).	
	CC	Mauracher et al. Reduction of rubella ELISA background using heat denatured sample buffer. J. Immunol. Methods. 145:251-254, 1991.*	
	CD	Pale-Grosdemange et al. (1991). Formation of self-assembled monolayers by chemisorption of derivatives of oligo(ethylene glycol) of structure HS(CH <sub>2</sub> ) <sub>11</sub> (OCH <sub>2</sub> CH <sub>2</sub> )mOH on gold. J. Am. Chem. Soc. 113(1):12-20.*	
	CE	Rowe et al. "Array biosensor for simultaneous identification of bacterial, viral and protein analytes" Anal. Chem. 71(17):3846-3852 (1999).	
	CF	Sigal et al. "A self-assembled monolayer for the binding and study of histidine-tagged proteins by surface plasmon resonance" Anal. Chem 68:490-497 (1996).	
	CG	Silzel et al. "Mass-sensing, multianalyte microarray immunoassay with imaging detection" Clin. Chem. 44(9):2036-2043 (1998).	
/	CH	Pham, et al. "Human Interleukin-2 Production in Insect (Trichoplusia ni) Larvae: Effects and Partial Control of Proteolysis", Biotechnology and Bioengineering vol. 62(2) pp. 175-182; Jan. 20, 1999.	

Examiner Signature		Date Considered	
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